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Barley Variety Test

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Abstract
Fourteen varieties were included in the 2007 barley variety test at Sutherland. Each variety was sown in three different plots to average the effects of soil variability. The varieties were planted April 16 at a rate of 2 bushels/acre. All barley plots were harvested on July 18.

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Agronomy

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Materials and Methods

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Results and Discussion

Barley yields averaged 64 bushels/acre in 2007, which is 18 bushels/acre lower than the long-term average (Table 1). Excel and Lacey were the highest yielding lines based on the long-term average and Stark had the highest test weight across all locations for the lines that were tested in 2007.

Additional information on barley variety tests in the state can be found in the publication, "Iowa Crop Performance Tests—Oat and Barley, 2007," which is available from county extension offices (Pm-1645) and at www.croptesting.iastate.edu/.

Table 1. Performance of spring barley varieties tested at Sutherland in 2007.

	Yield[1]					
Variety	2007	Long-term avg.	Test weight[2] (lb/bu)	Heading date[3] (June)	Plant height[4] (in.)	Number of rows
CDC Clyde	60	82	48.6	12	25.5	6
Conlon	60	76	48.8	10	26.0	2
Conrad	64	85	49.8	19	24.4	2
Drummond	64	80	48.6	10	26.3	6
Excel	68	84	49.1	12	26.9	6
Kewaunee	75	83	47.2	10	28.1	6
Lacey	69	85	49.5	11	26.1	6
Legacy	59	81	48.6	12	27.3	6
Logan	61	78	49.7	12	27.3	2
Rawson	63	81	48.5	13	25.7	2
Robust	61	80	48.3	11	27.1	6
Stark	62	80	50.2	14	27.4	2
Steller	61	83	47.9	11	26.3	6
Tradition	62	80	48.7	10	26.9	6
Average	64	82	48.9	12	26.4	
LSD (0.05)[5]	12	8	1.1	2	2.3	

[1]Grain yields are based on 48 lb/bushel test weight.
[2]Test weight – average from three sites.
[3]Heading data collected at Ames only.
[4]Height – measured at Ames.
[5]LSD = least significant difference. When entries differ by an amount equal to one LSD or more, they are considered to be in different classes with 95% certainty.